UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/447,080	11/22/1999	JOUNG-KYOU PARK	678-335-(P85	3345

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DILWORTH & BARRESE, LLP
333 EARLE OVINGTON BLVD.
UNIONDALE, NY 11553

EXAMINER
NGUYEN, JENNIFER T

ART UNIT	PAPER NUMBER
2674	

DATE MAILED: 07/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)
Office Action Summary	09/447,080	PARK ET AL.
	Examiner	Art Unit	
	Jennifer T. Nguyen	2674	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>22 November 1999</u>.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>3,4 and 7-10</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>3,4,7-10</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

1.   This Office action is responsive to amendment filed on 5/12/05.

Claim Rejections - 35 USC § 103

2.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

3.   Claims 3, 4 and 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Gourdol (Patent No. US 5,594,810) in view of Ishigaki (Patent No. US 5,361,310).

Regarding claim 3, referring to Figs. 1 and 11, Gourdol teaches a character recognition

device for recognizing a character input through a touch screen (20) comprising: a touch screen

data recorder (i.e., prototype buffer) for storing touch screen data generated from input of stroke,

wherein said character is recognized in response to said stroke or in response to a plurality of

strokes; a character recognition processor (i.e., algorithmic gesture recognizer) for performing

character recognition of the stored touch screen data at each time when each stroke is input

through said touch screen (col. 7, line 38 to col. 8, line 32), wherein all the touch screen data are

recognized as a single character when said predetermined waiting threshold time is completely

counted, wherein the character recognition and the counting of the threshold time occur

simultaneously (col. 14, line 62 to col. 15, line 23), and wherein character recognition is restarted

in response to the start of a second stroke (Fig. 3, i.e., start as step 72 to get first stroke as step 74

then recognition the stroke in step 76, after the character is recognized in step 78, the system is

restarted to get second stroke and the recognition step 76 is restarted in response to the start of a

second stroke).

Gourdol differs from claim 3 in that he does not specifically teaches a timer for counting

a predetermined waiting threshold time when there is no touch data generated; however referring

to Fig. 3, Ishigaki teaches a timer (45) for counting a predetermined waiting threshold time when

there is no touch data generated (col. 4, lines 40-55). Therefore, it would have been obvious to

one of ordinary skill in the art at the time the invention was made to incorporate the timer as

taught by Ishigaki in the system of Gourdol in order to provide a character recognition device

which is performing character recognition accurately and quickly.

Regarding to claim 4, Gourdol teaches the touch screen recorder and character

recognition processor are designed to have multi-tasking functions, thereby perform the

corresponding function when a touch screen data is generated and stored (col. 7, line 24 to col. 8,

line 40).

Regarding claims 7 and 9, referring to Figs. 1 and 11, Gourdol teaches a character

recognition device for recognizing a character input through a touch screen (20) comprising: a

touch screen data recorder (i.e., prototype buffer) for storing touch screen data generated from

input of stroke, wherein said character is recognized in response to said stroke or in response to a

plurality of strokes; a character recognition processor (i.e., algorithmic gesture recognizer) for

performing character recognition of the stored touch screen data as a character (col. 7, line 38 to

col. 8, line 32), wherein a freshly stored touch screen data generated before completion of

counting the predetermined waiting threshold time is added to the previous touch screen data to

complete said character (col. 14, line 62 to col. 15, line 23), and wherein character recognition is

restarted in response to the start of a second stroke (Fig. 3, i.e., start as step 72 to get first stroke

as step 74 then recognition the stroke in step 76, after the character is recognized in step 78, the

system is restarted to get second stroke and the recognition step 76 is restarted in response to the

start of a second stroke).

Gourdol differs from claims 7 and 9 in that he does not specifically teaches a timer for

counting a predetermined waiting threshold time when there is no touch data generated; however

referring to Fig. 3, Ishigaki teaches a timer (45) for counting a predetermined waiting threshold

time when there is no touch data generated (col. 4, lines 40-55). Therefore, it would have been

obvious to one of ordinary skill in the art at the time the invention was made to incorporate the

timer as taught by Ishigaki in the system of Gourdol in order to provide a character recognition

device which is performing character recognition accurately and quickly.

Regarding claims 8 and 10, Gourdol teaches the character recognition processor outputs a

character code corresponding to a recognized character when another touch screen data is not

generated before completion of counting to said predetermined waiting threshold time (col. 14,

line 62 to col. 15, line 23).

Response to Arguments

4.   Applicants' arguments filed 5/12/05, have been fully considered but they are not

persuasive because as follows:

In response to applicants' argument filed "Neither Gourdol nor Ishigaki teaches or

discloses that the character recognition is restarted in response to the start of a second stroke"

and "Gourdol does not disclose recognizing a gesture upon the entering of each stroke".

Examiner respectfully disagrees because in Fig. 3, Gourdol teaches starting as step 72 to get first

stroke as step 74 then recognition the stroke in step 76, after the character is recognized in step

78, the system is restarted to get second stroke and the recognition step 76 is restarted in

response to the start of a second stroke (col. 7, lines 38-50), accordingly Gourdol teaches

recognizing a gesture upon the entering of each stroke. Therefore, it is believed that the ground

of the rejection is maintained.

5.   **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jennifer T. Nguyen whose telephone number is 571-272-7696.

The examiner can normally be reached on Mon-Fri: 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Patrick N. Edouard can be reached on 571-272-7603. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jennifer Nguyen
7/18/05

REGINA LIANG
PRIMARY EXAMINER